Notice of Allowability	Application No.	Applicant(s)	
	10/075,338	REED ET AL.	
	Examiner	Art Unit	
	Thanh-Ha Dang	2163	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *07/12/2006*.

2. ☒ The allowed claim(s) is/are *45-46, 48-56, 63-64, 66-78, 80, and 82-86 that are renumbered as 1-32*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DON WONG
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

DETAILED ACTION

Response to Amendment

1. Receipt of Applicant's Amendment filed 07/12/2006 is acknowledged.

EXAMINER'S AMENDMENT

2. Authorization for this examiner's amendment was given in a telephone interview with Mr. John D. Cowart on September 13, 2006.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

1. – 44. (Canceled)

45. (Amended) A method of loading data into a database system, comprising:

receiving an insert request to insert data into a table in a database system, where the insert request includes one or more links, and each link indicates a server connection and a storage location for data corresponding to the link;

creating a table entry in the database system;

opening the corresponding server connection for each received link;

requesting the data corresponding to each received link through the corresponding opened server connection;

receiving the requested data for each received link through the corresponding server connection; and

storing the received data in the table entry;

where at least two insert requests are processed in parallel.

46. (Previously presented) The method of claim 45, comprising:

selecting a data storage facility within the database system to store the data indicated by the insert request; and

passing the insert request to a database worker task within a processing module associated with the selected data storage facility.

47. (Canceled)

48. (Previously presented) The method of claim 45, where the table entry includes a field of a user defined type and the received data is stored in a user defined type object representing the user defined type field.

49. (Previously presented) The method of claim 45, where at least one link is a URL.

50. (Previously presented) The method of claim 45, where at least one link is an ODBC DSN.

51. (Previously presented) The method of claim 45, where the insert request includes a link string indicating the one or more links.

52. (Previously presented) The method of claim 51, further comprising parsing the link string to derive each of the links.

53. (Previously presented) The method of claim 45, where opening the corresponding server connection includes opening a connection across the Internet.

54. (Previously presented) The method of claim 45, further comprising storing at least some of the received data in a large object database related to the database system.

55. (Previously presented) The method of claim 45, further comprising passing the received links to a link constructor.

56. (Previously presented) The method of claim 55, where the link constructor creates the table entry, opens appropriate server connections, requests and

receives data through opened server connections, and stores the received data in the created table entry.

57. (Canceled)
58. (Canceled)
59. (Canceled)
60. (Canceled)
61. (Canceled)
62. (Canceled)

63. (Amended) A computer program, stored on a computer-readable ~~tangible~~ storage medium, for use in loading data into a database system, the program comprising executable instructions that cause a computer to:

receive an insert request to insert data into a table in a database system, where the insert request includes one or more links, and each link indicates a server connection and a storage location for data corresponding to the link;

create a table entry in the database system;

open the corresponding server connection for each received link;

request the data corresponding to each received link through the corresponding opened server connection;

receive the requested data for each received link through the corresponding server connection; and

store the received data in the table entry;

where at least two insert requests are processed in parallel.

64. (Previously presented) The computer program of claim 63, further comprising executable instructions that cause a computer to:

select a data storage facility within the database system to store the data indicated by the insert request; and

pass the insert request to a database worker task within a processing module associated with the selected data storage facility.

65. (Canceled)

66. (Previously presented) The computer program of claim 63, where the table entry includes a field of a user defined type and the received data is stored in a user defined type object representing the user defined type field.

67. (Previously presented) The computer program of claim 63, where at least one link is a URL.

68. (Previously presented) The computer program of claim 63, where at least one link is an ODBC DSN.

69. (Previously presented) The computer program of claim 63, where the insert request includes a link string indicating the one or more links.

70. (Previously presented) The computer program of claim 69, further comprising executable instructions that cause a computer to parse the link string to derive each of the links.

71. (Previously presented) The computer program of claim 63, where opening the corresponding server connection includes opening a connection across the Internet.

72. (Previously presented) The computer program of claim 63, further comprising executable instructions that cause a computer to store at least some of the received data in a large object database related to the database system.

73. (Previously presented) The computer program of claim 63, further comprising executable instructions that cause a computer to pass the received links to a link constructor.

74. (Previously presented) The computer program of claim 73, where the link constructor creates the table entry, opens appropriate server connections, requests and receives data through opened server connections, and stores the received data in the created table entry.

75. (Amended) A database system, comprising:

one or more data storage facilities for use in storing data composing records in tables of a database;

one or more processing modules configured to manage the data stored in the data-storage facilities; and

a database management component configured to load data into the data storage facilities after receiving one or more links in a request from a client system, where each link indicates a server connection and a storage location for the data to be loaded;

where at least one processing module includes executable instructions providing a database worker task configured to:

create a table entry in a data storage facility corresponding to the processing module including the database worker task;

open the corresponding server connection for each received link;

request the data corresponding to each received link through the corresponding opened server connection;

receive the requested data for each received link through the corresponding server connection; and

store the received data in the table entry; and

where the database management component is further configured to process at least two client requests including link strings in parallel.

76. (Previously presented) The database system of claim 75, where the request is an insert request.

77. (Previously presented) The database system of claim 75, where the request is an update request.

78. (Previously presented) The database system of claim 75, where the one or more data storage facilities store one or more objects of a user defined type for storing data loaded using links received in client requests.

79. (Canceled)

80. (Amended) The database system of claim 75 ~~79~~, where the database management component is further configured to:

select a data storage facility within the database system to store the data indicated by the client request; and

pass the client request to the database worker task within a processing module associated with the selected data storage facility.

81. (Canceled)

82. (Previously presented) The database system of claim 75, where at least one link is a URL.

83. (Previously presented) The database system of claim 75, where at least one link is an ODBC DSN.

84. (Previously presented) The database system of claim 75, where at least one link indicates a server connection accessible to the database management component through the Internet.

85. (Previously presented) The database system of claim 75, further comprising a large object database connected to the database management component.

86. (Previously presented) The database system of claim 75, where the database management component is further configured to store the received links and provide the stored links upon request.

87. (Canceled)
88. (Canceled)

Allowable Subject Matter

3. Claims 45-46, 48-56, 63-64, 66-78, 80 and 82-86 are allowed and are renumbered as 1-32.

The following is an examiner's statement of reasons for allowance: Claims 3, 21 and 37 remain patentable for the reason noted in the 11/03/2005 Office Action. In particular, these claims have been found allowable as the prior art of record failed to teach storing the received data in the table entry, where at least two insert requests are processed in parallel as required by these independent claims. As for the newly amended claims 45, 63 and 75, they are now patentable for the same reason as applied to independent claims 3, 21 and 37. More specifically, they all share the common patentable features as noted as follow. The art of record fails to teach receiving an insert request to insert data into a table in a database system, where the insert request includes one or more links, and each link indicates a server connection and a storage location for data corresponding to the link taken with the other limitations as that required by independent claims 45, 63 and 75. The remaining dependent claims being definite further limiting and fully enabled by the Specification, are patentable by virtue of their dependency on the allowable claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh-Ha Dang whose telephone number is 571-272-4033. The examiner can normally be reached on Monday-Friday from 9:00 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thanh-Ha Dang
Examiner
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DON WONG
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